



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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08/984,560 12/03/97 MAILLOUX

J 95-0653.01

021186 LM01/0915
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EXAMINER

KIM, H

ART UNIT

PAPER NUMBER

2751

DATE MAILED:

09/15/99

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.

08/984560

Applicant(s)

Mailloux et al,

Examiner

H. Kim

Group Art Unit

2751

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Response

A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SET TO EXPIRE 3 (three) MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a response be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for response specified above is less than thirty (30) days, a response within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for response is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to respond within the set or extended period for response will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on 12/3/97
- ☐ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 11-21 is/are pending in the application.
- Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 11-21 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
- ☐ received in Application No. (Series Code/Serial Number) _____.
- ☐ received in this national stage application from the International Bureau (PCT Rule 1.7.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☒ Information Disclosure Statement(s), PTO-1449, Paper No(s) 5
- ☒ Notice of References Cited, PTO-892
- ☒ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Interview Summary, PTO-413
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Other _____

Office Action Summary

Detailed Action

1. Claims 11-21 are presented for examination. This office action is in response to the application filed on 12/3/97.
2. The status of the related U.S. applications or patents should be updated and/or included as appropriate in the CROSS-REFERENCE TO RELATED APPLICATIONS section and in any other corresponding area in the specification, if any. (e.g., U.S. Patent Application Serial No. #####,### filed Sept. 07, 1990, now abandoned; ..., now U.S. Patent #,###,### issued Jan. 01, 1994; or This application is a continuation of Serial Number #####,###, filed on December 01, 1990, now abandoned; ...etc.)

Specification

3. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The title should be more specific to differentiate the invention from similar inventions in the patent literature.

It appears --selecting between patternless addressing and pattern addressing schemes and switching between a first pathway and a second pathway-- should be included in the title so that the title is more descriptive of the claimed invention.

4. The Abstract of the disclosure is objected to because it should be includes --selecting between

patternless addressing and pattern addressing schemes and switching between a first pathway and a second pathway-- in the abstract so that the abstract is a concise statement of the technical disclosure of the application.

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Where applicable, the abstract should include the following:

- (1) if a machine or apparatus, its organization and operation;
- (2) if an article, its method of making;
- (3) if a chemical compound, its identity and use;
- (4) if a mixture, its ingredients;
- (5) if a process, the steps.

Extensive mechanical and design details of apparatus should not be given.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 USC § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

6. Claims 11-21 are rejected under 35 USC 102(b) as being anticipated by *Manning*, U.S. Patent 5,652,724.

As to claim 11, *Manning* discloses the invention as claimed. *Manning* discloses a storage device comprising: control logic for between a patternless addressing scheme and a patterned addressing scheme (Fig. 1 and col. 3 lines 27-28 & col. 7 lines 61-64) and switching circuit for switching between a first pathway and a second pathway (Fig. 1 col. 7 lines 50 +).

As to claim 12, *Manning* further discloses the storage device is asynchronous (Fig. 1 and EDO constitutes asynchronous memory, col. 3 line 34).

As to claim 13, *Manning* further discloses temporary buffer (Fig. 1 Refs. 18 and 34).

As to claim 14, *Manning* further discloses the external address is temporarily stored in the temporary storage device prior to being sent to a decoder (Fig. 1 Refs. 18).

As to claim 15, Manning further discloses counter (Fig. 1 Refs. 40 and 26).

As to claim 16, Manning further discloses the internal address is provided to temp storage device through the switching circuitry (Fig. 1 Refs. 38, 40, 26, 30).

As to claim 17, Manning further discloses a pipeline mode (col. 3 lines 28-29).

As to claim 18, Manning further discloses a burst mode (col. 3 lines 37-40).

As to claim 19, Manning further discloses muxes (Fig. 3 Ref. 56 and 58).

As to claim 20, Manning further discloses patternless addressing scheme is for random CAS (col. 3 lines 28-30) and the patterned addressing scheme is for sequence CAS (Fig. 1 Refs. 26 and 30).

As to claim 21, Manning further the sequence CAS is selected from a group consisting of interleaved and linear column address access. (Fig. 1 Refs. 18 and 34).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

1. USP 5,754,838, May 19, 1998, Synchronous dynamic memory device capable of operating over wide range of operation frequencies; Ken Shibata, et al..
2. USP 5,713,011, Jan. 27, 1998, Synchronized data processing system and image processing system; Jun Satoh, et al..
3. USP 5,652,724, Jul. 29, 1997, Burst EDO memory device having pipelined output buffer; Troy A. Manning.
3. USP 5,610,864, Mar 11, 1997, Burst EDO memory device with Maximized Write Cycle Timing; Troy A. Manning.

8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

9. When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. § 1.111(c).

10. Applicants are requested to number each line of each claim starting with line number one to provide easier communication in the future.

11. When responding to the office action, Applicant is advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

12. A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 USC 133, MPEP 710.02, 710.02(b)).

13. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Hong Kim whose telephone number is (703) 305-3835. The Examiner can normally be reached on the weekdays from 8:30 AM to 5:00 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Eddie Chan, can be reached on (703) 305-9712.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

14. **Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks
Washington, D.C. 20231

Serial Number: 08/984,560
Art Unit: 2751

-8-
Paper No. 9


or faxed to:

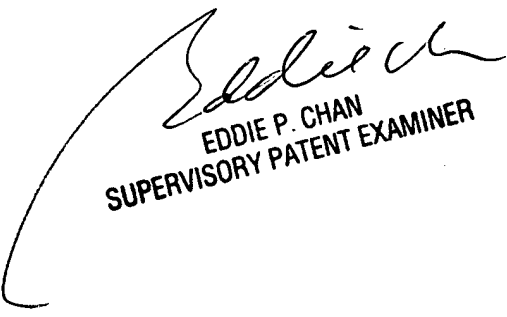
(703) 308-9051-2, (for formal communications intended for entry)

Or:

(703) 305-9731 (for informal or draft communications, please label
"PROPOSED" or "DRAFT")

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal
Drive, Arlington, VA., Sixth Floor (Receptionist).


HK
Patent Examiner
September 12, 1999


EDDIE P. CHAN
SUPERVISORY PATENT EXAMINER